



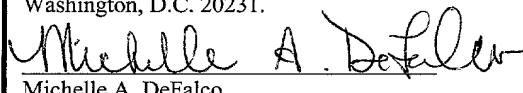
7-17-02

NEW UNITED STATES UTILITY PATENT APPLICATION
under 37 C.F.R. 1.53(b)

Page 1

Atty. Docket No. 4554/87215

CERTIFICATE OF EXPRESS MAILING UNDER 37 C.F.R. § 1.10: The undersigned hereby certifies that this United States Patent Application and all papers noted herein as being attached, are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" Service under 37 C.F.R. § 1.10 today, **July 14, 2000**, and is addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231.


Michelle A. DeFalco

Express Mail Label No.: EL572692636US

JC542 U.S. PRO
09/615683
07/14/00



Assistant Commissioner for Patents
Box Patent Application
Washington, D.C. 20231

Enclosed herewith is a new patent application and the following papers:

First Named Inventor (or application identifier): James A. Stockman

Title of Invention: Backpack and Chair Apparatus

1. Specification 13 pages (including specification, claims, abstract) / 17 claims (3 independent)
2. Declaration/Power of Attorney is:
 attached in the regular manner.
 NOT included, but deferred under 37 C.F.R. § 1.53(f).
3. 4 Distinct sheets of Formal Informal Drawings
4. Preliminary Amendment.
5. Information Disclosure Statement
 Form 1449
 A copy of each cited prior art reference
6. Assignment with Cover Sheet.
7. Priority is hereby claimed under 35 U.S.C. § 119 based upon the following application(s):

Country	Application Number	Date of Filing (day, month, year)

07/14/00
JC874 U.S. PTO

7-17-00

A

NEW UNITED STATES UTILITY PATENT APPLICATION
under 37 C.F.R. 1.53(b)

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jc542 U.S. PRO
09/615683
07/14/00

8. Priority document(s).
9. Statement Claiming Small Entity Status.
10. Microfiche Computer Program (Appendix).
11. Nucleotide and/or Amino Acid Sequence Submission.
 - Computer Readable Copy.
 - Paper Copy (identical to computer copy).
 - Statement verifying identity of above copies.

12. Calculation of Fees:

FEES FOR	EXCESS CLAIMS	FEE	AMOUNT DUE
Basic Filing Fee (37 C.F.R. § 1.16(a))			\$690.00
Total Claims in Excess of 20 (37 C.F.R. § 1.16(c))	0	18.00	\$0.00
Independent Claims in Excess of 3 (37 C.F.R. § 1.16(b))	0	78.00	\$0.00
Multiple Dependent Claims (37 C.F.R. § 1.16(d))	0	260.00	\$0.00
Subtotal - Filing Fee Due			\$690.00
		MULTIPLY BY	
Reduction by 50%, if Small Entity (37 C.F.R. §§ 1.9, 1.27, 1.28)	0.50		\$345.00
TOTAL FILING FEE DUE			\$345.00
Assignment Recordation Fee (if applicable) (37 C.F.R. § 1.21(h))	0	40.00	\$0.00
GRAND TOTAL DUE			\$345.00

13. PAYMENT is:

included in the amount of the GRAND TOTAL by our enclosed check. A general authorization under 37 C.F.R. § 1.25(b), second sentence, is hereby given to credit or debit our Deposit Account No. 19-0733 for the instant filing and for any other fees during the pendency of this application under 37 C.F.R. §§ 1.16, 1.17 and 1.18.

not included, but deferred under 37 C.F.R. § 1.53(f).

14. All correspondence for the attached application should be directed to:

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Facsimile: (617) 227-4399

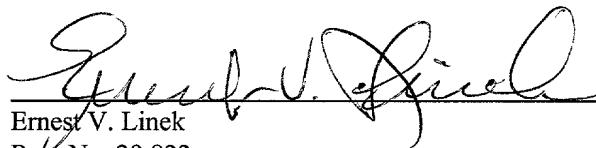
NEW UNITED STATES UTILITY PATENT APPLICATION
under 37 C.F.R. 1.53(b)

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Atty. Docket No. 4554/87215

15. Other: _____

Date: July 14, 2000

By: 
Ernest V. Linek
Reg. No. 29,822

EVL/mad

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

(Attorney's Docket No. 4554/87215)

Applicant or
Patentee: James A. Stockman

Serial or
Patent No. _____ Filed or
Issued: _____

Title: Backpack and Chair Apparatus

**VERIFIED STATEMENT CLAIMING SMALL ENTITY STATUS
(37 C.F.R. § 1.9(f) AND § 1.27(b)) - INDEPENDENT INVENTOR**

As a below-named inventor, I hereby declare that I qualify as an independent inventor as defined in 37 C.F.R. § 1.9(c) for purposes of paying reduced fees under § 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark Office with regard to the invention entitled Backpack and Chair Apparatus described in

the specification filed herewith
 Application Serial No. , filed
 Patent No. , issued .

I have not assigned, granted, conveyed or licensed and am under no obligation under contract or law to assign, grant, convey, or license, any rights in the invention to any person who would not qualify as an independent inventor under 37 C.F.R. § 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 C.F.R. § 1.9(d) or a nonprofit organization under 37 C.F.R. § 1.9(e).

Each person, concern or organization to which I have assigned, granted, conveyed or licensed or am under an obligation under contract or law to assign, grant, convey or license any rights in the invention is listed below:

X No such person.
— Each such person, concern, or organization is listed below.

FULL NAME _____

ADDRESS _____

Individual Small Business Concern Nonprofit Organization

Separate verified statements are required for each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR § 1.27).

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 C.F.R. § 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief or believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent

issuing therein, or any patent to which this verified statement is directed.

James A. Stockman
NAME OF INVENTOR

James A. Stockman
Signature of Inventor

7/6/00
Date

PATENT APPLICATION

Docket No. 4554/87215

BACKPACK AND CHAIR APPARATUS

BACKGROUND OF THE INVENTION

1. Technical Field

The present invention relates to backpacks and chairs, and in particular, to backpack and chair combinations.

2. Related Technology

The popularity of backpacking and peripheral sports is at an all-time high, and there is a tendency for participants to incorporate the comfort of a chair into their experience. Many chairs have been developed to fulfill this demand, most commonly in the form of separate, lightweight and packable designs. However, a separate chair must be carried within or upon a participant's backpack, which complicates the simplicity of pack stowage and the availability of the chair upon demand.

One approach to solving this problem has been through the combination of a backpack and chair into a single unit that can be converted between modes. However, the embodiments of this approach are generally deficient

because the backpack is unbalanced on a user's back, the chair is of inadequate rigidity or abnormal dimension, or the conversion process is disruptive to the pack load or its accessibility, or requires excessive assembly in terms of time, effort or the need for tools and separate parts.

Patents in this field include the following, the disclosures of which are hereby incorporated herein by reference: 5,538,318; 5,536,064; 5,527,088; 5,499,760; 5,492,255; 5,409,291; 5,381,941; 5,303,975; 5,289,958; 4,720,029; 4,487,345; and Design Patent No. 338,779.

The deficiencies encountered by earlier approaches to the backpack-chair combination have been avoided or overcome by the present invention. The earlier approaches had these shortcomings because they either failed to recognize or were unable to discern the unique combination of elements and interrelationships of the present invention which is briefly outlined in the following Summary, more fully described in the following Detailed Description defined by the Claims that follow.

SUMMARY OF THE INVENTION

A backpack and chair apparatus in accordance with one embodiment of the present invention overcomes or avoids the deficiencies of earlier approaches by using a frame, sub-frame, locking assembly, shoulder straps and storage pack to provide a balanced backpack with the ability to convert into a structurally rigid chair of normal household size. The conversion requires only nominal assembly and effort, does not disrupt the pack load or its accessibility, and requires no tools or separate parts. The resultant backpack and chair apparatus advantageously increases the simplicity of pack stowage and the availability of a chair upon demand by those who would otherwise tote a separate chair within or upon a backpack.

In accordance with one embodiment of the present invention, a

backpack and chair apparatus includes a frame, a sub-frame, a locking assembly, a plurality of straps and a storage pack. The pack and straps are attached to the frame to enable the frame and pack to be carried on one's back when loaded with gear. This is the backpack mode of the apparatus. The sub-frame, which is pivotally attached to the frame, can pivot from a position parallel to the frame where it acts as a back support during backpack mode, to a position perpendicular to the frame where it acts as a seat during what is termed the chair mode of the apparatus. The locking assembly, which is pivotally attached to the sub-frame, pivots and unfolds from within the sub-frame during backpack mode, to a position during chair mode that acts as the legs of the chair and a bracing mechanism to lock and secure the chair into position.

Further advantages to the present invention exist, such as the storage pack being removably attached to the frame, and the addition of a cushion that is removably attached to the sub-frame. These and other advantages are further described in the following Detailed Description section and defined in the following claims.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a cross section of the backpack and chair apparatus in the backpack mode.

Figure 2 is a cross section of the backpack and chair apparatus being converted from the backpack mode to the chair mode.

Figure 3 is a cross section of the backpack and chair apparatus in the chair mode.

Figure 4 is a three-dimensional parts breakdown of the backpack and chair apparatus in its preferred embodiment.

DETAILED DESCRIPTION OF A PREFERRED EMBODIMENT

Figure 1 shows the apparatus in backpack mode, with the sub-frame parallel to the frame, the locking assembly in backpack mode enabling position folded within the sub-frame, and the cushion acting as a back support. In this mode, one's arms are placed through the straps until the straps rest on his or her shoulders, thereby enabling the user to carry the apparatus as a standard backpack. The straps are positioned relative to the frame such that the backpack is balanced and the load does not ride too low on the user's back.

Figure 3 shows the apparatus in chair mode, with the sub-frame perpendicular to the frame. The locking assembly is in chair mode locking position with the jointed swing arms unfolded from the sub-frame and secured to the frame, thereby acting as the legs of the chair and a bracing mechanism to lock and secure the sub-frame to remain in the chair mode when sat on by a person. The cushion is acting as a seat cushion. In this mode, one sits on the cushion and sub-frame with his or her back resting against the upper portion of the frame. The chair is structurally rigid and of normal household size. While in the chair mode, the storage pack and all compartments are easily accessible. Referring to Figure 4, the combination of slat 8 and 7A aid in preventing the chair-mode apparatus from sinking into soft ground without the need for apparatus feet.

Figure 2 shows the apparatus being converted from backpack mode to chair mode, with the sub-frame fully pivoted from the parallel-to-frame to the perpendicular-to-frame position, and each locking assembly jointed swing arm almost fully unfolded from within the sub-frame to be secured to the frame. Conversion from backpack mode to chair mode, and visa versa, requires nominal assembly, minimal effort, and no tools or separate parts. The conversion begins by simply pivoting the sub-frame from its Figure 1 to Figure 2 position. The sub-frame pivoted segment of each jointed swing arm is then fully unfolded to the perpendicular-to-sub-frame position, and the free-end

segment of each jointed swing arm is unfolded and attached to the frame via its respective slide catch. Reversing this procedure performs conversion from chair mode to backpack mode, where referring to Figure 4, the upper set of grooves in slats 3, 3A, 4 and 4A are formed to mate with slat 8 when the apparatus is in the backpack mode.

Referring in greater detail to Figures 1 through 3, a backpack and chair apparatus in accordance with one embodiment of the present invention uses a frame, sub-frame, locking assembly, shoulder straps, storage pack and cushion to provide a backpack with the ability to convert into a chair. Each component is described in turn below. The preferred embodiment of the present invention is constructed as shown in further detail in Figure 4. Referring to Figure 4, the frame, sub-frame, and locking assembly are preferably made from formed slats of white ash wood, but any sufficiently rigid material of construction is appropriate, such as aluminum tubing or molded plastic. Similarly, although preferable methods of fastening are described, such as screws, rivets and nylon straps, any functional method of fastening is sufficient.

The frame acts as the main support of the apparatus, and is created by forming slats 6, 7, and 8 as shown with drilled holes, and connecting them to slats 1 and 1A as shown with turn buckles 17 and turn buckle screws 20. Slats 1 and 1A are designed to extend slightly beyond slat 6 to enable items to be hung or tied.

The sub-frame acts as a back support when in the back pack mode and as a seat when in the chair mode. It is created by forming and drilling slats 2, 2A, 9, 10 and 11, riveting slats 2 and 2A to 1 and 1A as shown with rivets 14, spacer washers 15 and rivet washers 16 as shown, and screwing slats 9 and 10 to 2 and 2A with seat slat screws 22, and 9 to 11 with seat brace screws 23 as shown. The grooves in slats 2 and 2A are formed to mate with slat 8 when the apparatus is in the backpack mode.

The locking assembly, when in chair mode locking position, acts as the legs of the chair and a bracing mechanism to lock and secure the sub-frame to remain in the chair mode when sat on by a person. When in the backpack mode, the locking assembly folds into the sub-frame and out of the way in what is termed the backpack mode enabling position. The locking assembly is constructed by first forming and drilling slats 3, 3A, 4, 4A, 5 and 7A as shown. Two jointed swing arms are then formed from slats 3 and 4, and slats 3A and 4A, each joined by rivet as shown. The slat-3 end of each jointed swing arm is riveted to the end of the sub-frame, slats 2 and 2A as shown. Slat 5 is screwed with brass screws 21 to the mid-section groove of slats 3 and 3A as shown, and slat 7A is screwed to the mid-section groove of slats 4 and 4A as shown. Brace strap 26, which is made of lightweight nylon with end-loops, is inserted and fastened onto the mid-section grooves of slats 7 and 7A as shown. This prevents the chair/sub-frame from pivoting back too far, while the two seat braces 11 prevent the chair/sub-frame from pivoting too far forward. Brace locking catches 13 are screwed with slide catch screws 19 onto the ends of each jointed swing arm, slats 4 and 4A. The respective mates of each Brace Locking Catch, namely, Frame Locking Catches 12, are riveted with slide catch rivets 18 onto the respective grooves of slat 8.

Shoulder straps 27 are attached to the frame with rivets to slat 7 and have snaps that attach to D Rings 24 which are riveted to the bottom of slats 1 and 1A. Shoulder straps 27 include an adjustable sternum strap as shown, and an adjustable waist strap is provided which attaches to the bottom of slats 1 and 1A.

Storage Pack 28 is constructed of heavy density fabric, although any material of reasonable weight and function is sufficient. The Storage Pack is removably attached to the frame via turn buckles 17 as shown, thereby enabling the user to remove the pack for cleaning or to use the chair separately.

Back Support/Seat Cushion 25 is wedge shaped and constructed of foam rubber with waterproof fabric covering, and is removably connected to the sub-frame as shown via a lightweight nylon strap with plastic snaps. There is a zipper provided to allow removal of the foam cushion for washing purposes.

Figure 4 shows the exploded parts used to build a preferred embodiment of the present invention which has been given the trademark "PAC-A-CHAIR. As shown therein, the following parts are combined to create this unique article of manufacture:

left frame upright (1) and right frame upright (1a);
left seat support (2) and right seat support (2a);
left chair leg (3) and right chair leg (3a);
left locking brace (4) and right locking brace (4a);
chair leg brace (5);
top frame brace (6);
top strap brace (7) and bottom strap brace (7a);
bottom frame brace (8);
inside seat slats - three pieces (9);
outside seat slats - three pieces (10);
seat brace - two pieces (11);
bottom frame brace catch (12);
locking brace catch (13);
plurality of rivets - 1.25" x 5/16" (14);
plurality of spacer washers (15);
plurality of rivet washers (16);
turn buckles (17);
side catch rivets (18);
side catch screws - #6 x 3/4 (19);
turn buckle screws - #6 x 3/4 (20);
brass screws - #8 x 1 (21);
seat slat screws - #8 x 1 (22);

seat brace screws - #6 x 3/4 (23);
D rings (24);
seat cushion/back support, preferably wedge shaped (25);
brace strap (26);
shoulder straps (27); and
pack bag (28).

Various other modifications and alterations in the structure and method of operation of this invention will be apparent to those skilled in the art without departing from the scope and spirit of the invention. Although the invention has been described in connection with specific preferred embodiments, it should be understood that the invention as claimed should not be unduly limited to such specific embodiments. It is intended that the following claims define the scope of the present invention and that the structures and methods within the scope of these claims and their equivalents be covered thereby.

WHAT IS CLAIMED IS:

1. A backpack and chair apparatus, comprising:
 - a storage pack;
 - a frame attached to said storage pack;
 - a plurality of straps attached to said frame enabling a person to carry the said frame and said storage pack on one's back in a backpack mode;
 - a sub-frame pivotally attached to said frame and capable of being pivoted from the backpack mode to a chair mode thereby enabling a person to sit on the apparatus as a chair;
 - a locking assembly pivotally attached to said sub-frame and capable of being pivoted from a backpack mode enabling position to a chair mode locking position to lock and secure the sub-frame when in the chair mode so that the apparatus remains in the chair mode when sat on by a person.
2. The backpack and chair apparatus of claim 1, wherein the sub-frame is capable of being pivoted from the backpack mode, parallel to the frame, to a chair mode, perpendicular to the frame, thereby enabling a person to sit on the apparatus as a chair.
3. The backpack and chair apparatus of claim 1, wherein the storage pack and frame are removably attached.
4. The backpack and chair apparatus of claim 1, further comprising a cushion attached to the sub-frame such that it acts as a back support when the apparatus is in the backpack mode and a seat cushion when the apparatus is in the chair mode.
5. The backpack and chair apparatus of claim 4, wherein the cushion is removably attached to the sub-frame.
6. A backpack and chair apparatus, comprising:

a storage pack;

a frame attached to said storage pack;

a plurality of straps attached to said frame enabling a person to carry the said frame and said storage pack on one's back in a backpack mode;

a sub-frame pivotally attached to said frame and capable of being pivoted from the backpack mode, parallel to the frame, to a chair mode, perpendicular to the frame, thereby enabling a person to sit on the apparatus as a chair;

a locking assembly pivotally attached to said sub-frame and capable of being pivoted from a backpack mode enabling position to a chair mode locking position to lock and secure the sub-frame when in the chair mode so that the apparatus remains in the chair mode when sat on by a person;

a cushion attached to the sub-frame such that it acts as a back support when the apparatus is in the backpack mode and a seat cushion when the apparatus is in the chair mode.

7. The backpack and chair apparatus of claim 6, wherein said locking assembly comprises a jointed swing arm pivotally attached at one end to the sub-frame and removably attachable at the other end to the frame, such that one segment of the jointed swing arm acts as a chair leg to the sub-frame when in the chair mode.

8. The backpack and chair apparatus of claim 7, wherein conversion of the sub-frame between backpack mode and chair mode, and correspondingly of the locking assembly between the backpack enabling position and the chair locking position, requires no tools of assembly and is performed with nominal effort.

9. The backpack and chair apparatus of claim 6, wherein the sub-frame, when in chair mode, enables a person to sit on the apparatus as a chair of normal household stability and size.

10. The backpack and chair apparatus of claim 6, wherein said straps are attached to the frame at a position that facilitates a balanced pack load that does not ride uncomfortably low on a user's back when in the backpack mode.

11. The backpack and chair apparatus of claim 6, wherein the storage pack and frame are removably attached.

12. The backpack and chair apparatus of claim 6, wherein the cushion is removably attached to the sub-frame.

13. A backpack and chair apparatus, comprising:
a storage pack;
a frame attached to said storage pack;
a plurality of straps attached to said frame enabling a person to carry the said frame and said storage pack on one's back in a backpack mode, wherein said straps are attached to the frame at a position that facilitates a balanced pack load that does not ride uncomfortably low on a user's back when in the backpack mode;

a sub-frame pivotally attached to said frame and capable of being pivoted from the backpack mode, parallel to the frame, to a chair mode, perpendicular to the frame, thereby enabling a person to sit on the apparatus as a chair of normal household stability and size;

a locking assembly pivotally attached to said sub-frame and capable of being pivoted from a backpack mode enabling position to a chair mode locking position to lock and secure the sub-frame when in the chair mode so that the apparatus remains in the chair mode when sat on by a person, wherein said locking assembly comprises a plurality of jointed swing arms pivotally attached at one end to the sub-frame and removably attachable at the other end to the frame, such that one segment of each jointed swing arm acts as a chair leg to the sub-frame when in the chair mode;

wherein conversion of the sub-frame between backpack mode and chair mode, and correspondingly of the locking assembly between the backpack

enabling position and the chair locking position, requires no tools of assembly and is performed with nominal effort;

a cushion attached to the sub-frame such that it acts as a back support when the apparatus is in the backpack mode and a seat cushion when the apparatus is in the chair mode.

14. The backpack and chair apparatus of claim 13, wherein the locking assembly comprises a plurality of the said jointed swing arm.

15. The backpack and chair apparatus of claim 13, wherein the storage pack and frame are removably attached.

16. The backpack and chair apparatus of claim 13, wherein the cushion is removably attached to the sub-frame.

17. The backpack and chair apparatus of claim 16, wherein the cushion further includes a zipper for ease of removal.

ABSTRACT OF THE DISCLOSURE

A backpack and chair apparatus with the ability to convert between a balanced backpack and a structurally rigid chair of normal household size. The conversion requires only nominal assembly and effort, does not disrupt the pack load or its accessibility, and requires no tools or separate parts. This advantageously increases the simplicity of pack stowage and the availability of a chair upon demand by those who would otherwise tote a separate chair within or upon a backpack.

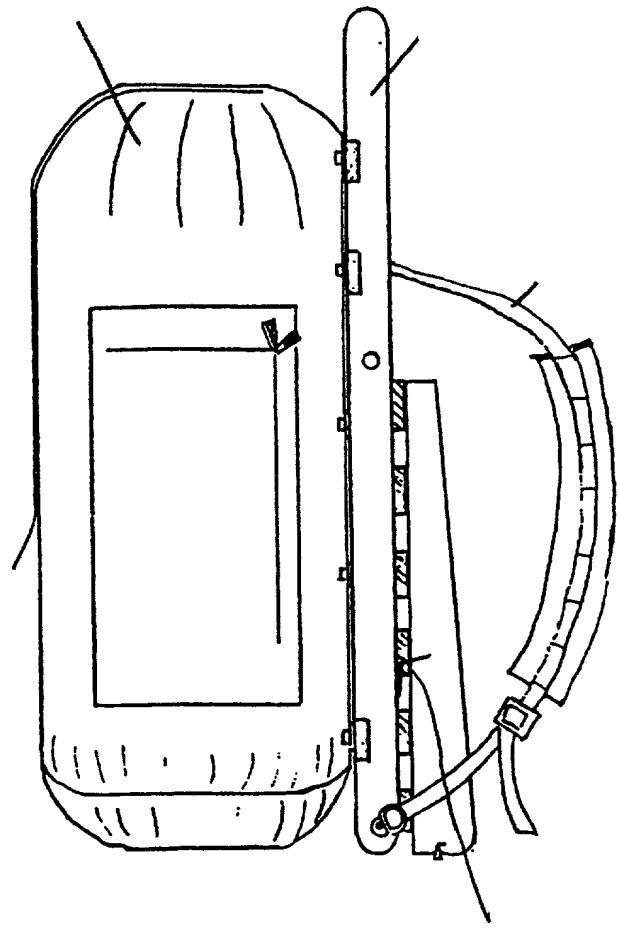


FIGURE #1

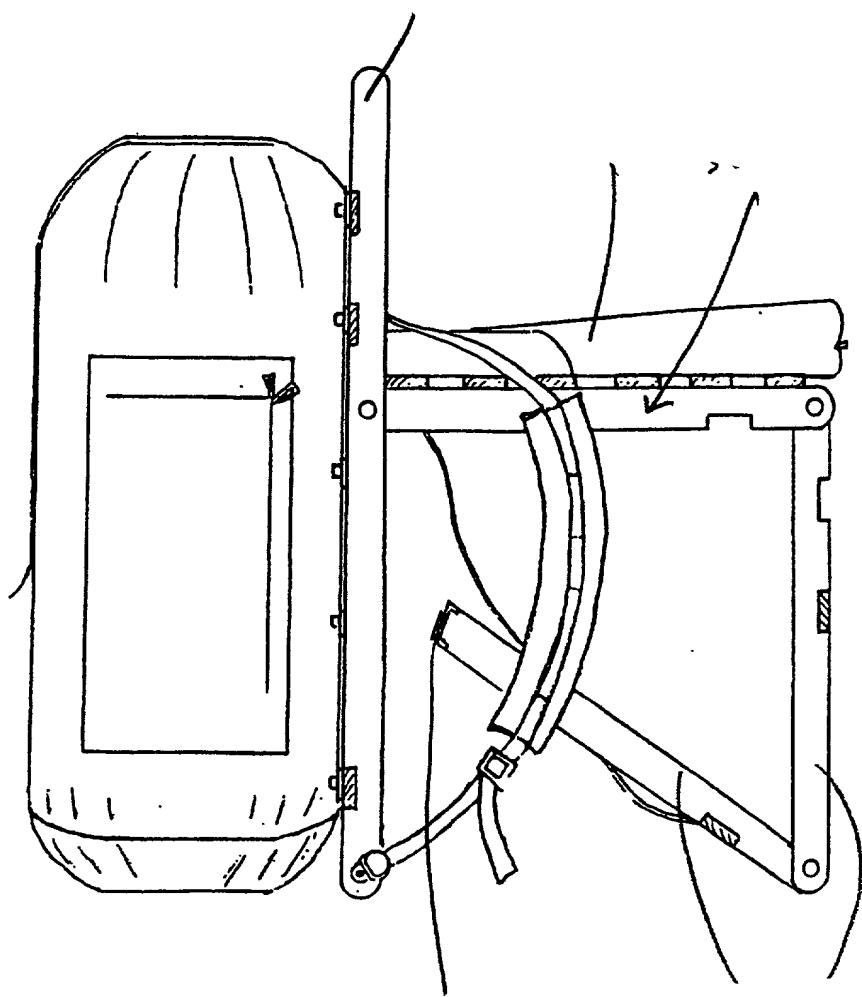


FIGURE #2

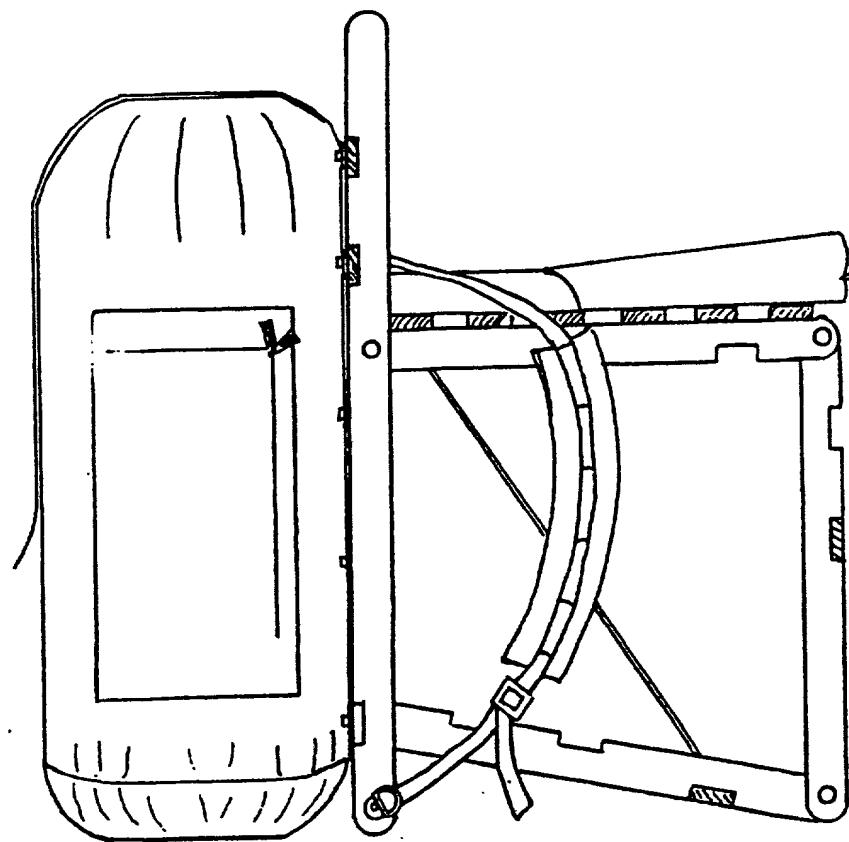
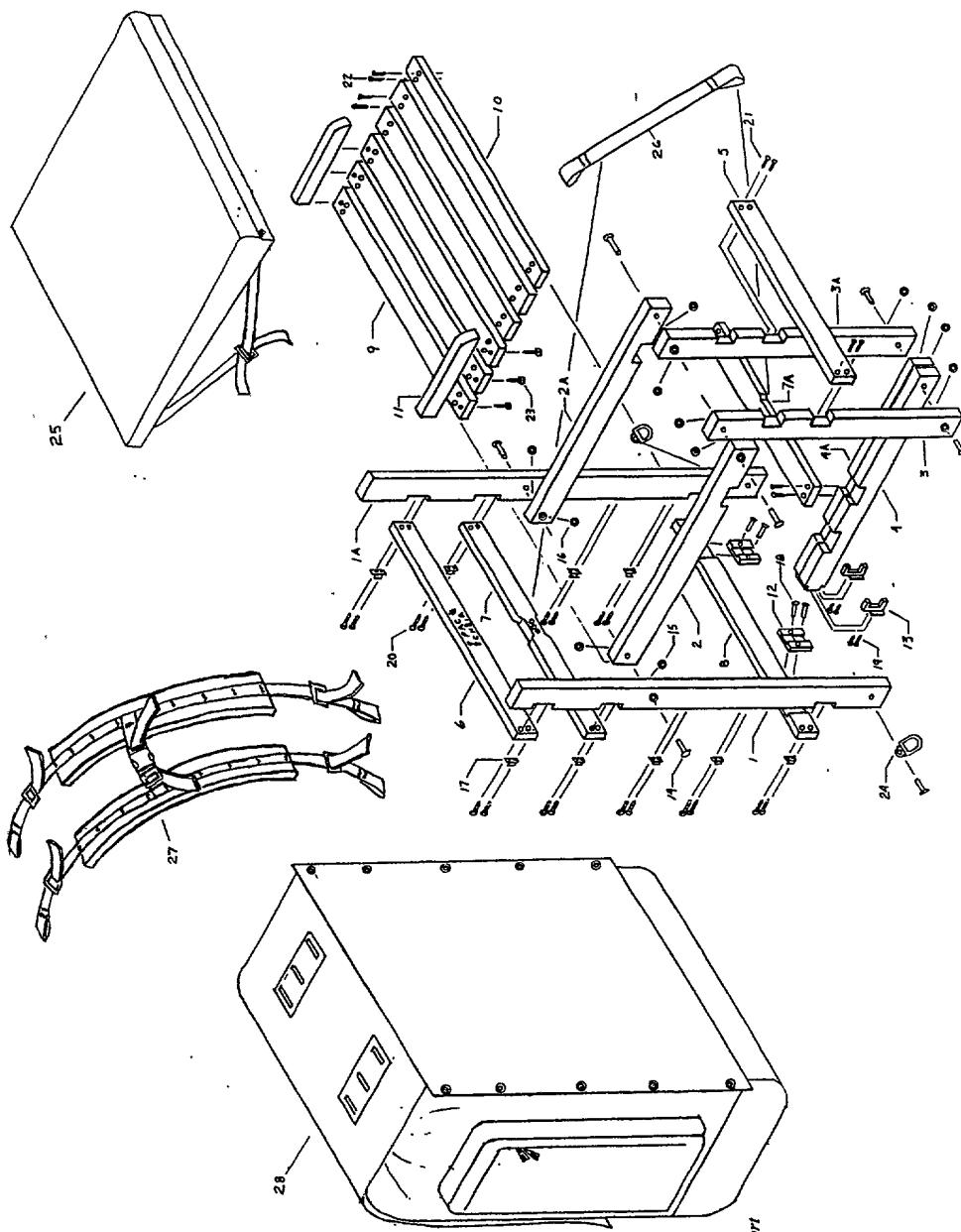


FIGURE #3

FIGURE #4



PAC - A - CHAIR PARTS

- ① Left Frame Upright
- ② Right Frame Upright
- ③ Left Seat Support
- ④ Right Seat Support
- ⑤ Left Chair Leg
- ⑥ Right Chair Leg
- ⑦ Left Locking Brace
- ⑧ Right Locking Brace
- ⑨ Chair Leg Brace
- ⑩ Top Frame Brace
- ⑪ Top Strap Brace
- ⑫ Bottom Strap Brace
- ⑬ Bottom Frame Brace
- ⑭ Inside Seat Slats 3 pc.
- ⑮ Outside Seat Slats 3 pc.
- ⑯ Seat Brace 2 pc.
- ⑰ Bottom Frame Brace Catch
- ⑱ Locking Brace Catch
- ⑲ 1 1/4" x 5/16" Rivet
- ⑳ Spacer washer
- ㉑ Rivet Washer
- ㉒ Turn Buckle
- ㉓ Slide Catch Rivet
- ㉔ Slide Catch Screws # 6 x 3/4
- ㉕ Turn Buckle Screws # 6 x 3/4
- ㉖ Brass #8 x 1
- ㉗ Seat Slats Screw # 8 x 1
- ㉘ Seat Brace Screw # 6 x 3/4
- ㉙ D Ring
- ㉚ Wedge Shape Seat Cushion Back Support
- ㉛ Brace Strap
- ㉜ Shoulder Strap
- ㉝ Pack Bag

SOLE DECLARATION FOR PATENT APPLICATION

As the below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled Backpack and Chair Apparatus, the specification of which

- is attached hereto.
- was filed on _____ as Application Serial Number _____ and was amended on _____
(if applicable).
- was filed under the Patent Cooperation Treaty (PCT) and accorded International Application No. _____, filed _____, and amended on _____ (if any).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I hereby acknowledge the duty to disclose information which is material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56(a).

Prior Foreign Application(s)

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application(s) for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Country	Application No.	Date of Filing (day month year)	Date of Issue (day month year)	Priority Claimed Under 35 U.S.C. §119

Prior United States Provisional Application(s)

I hereby claim priority benefits under Title 35, United States Code, §119(e)(1) of any U.S. provisional application listed below:

U.S. Provisional Application No.	Date of Filing (day month year)	Priority Claimed Under 35 U.S.C. §119(e)(1)

Prior United States Application(s)

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No.	Date of Filing (Day, Month, Year)	Status — Patented, Pending, Abandoned

Power of Attorney

And I hereby appoint, both jointly and severally, as my attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith the following attorneys and agents, their registration numbers being listed after their names:

ALTHERR, Robert F.	31,810	HONG, Patricia E.	34,373	NIEGOWSKI, James A.	28,331
BANNER, Donald W.	17,037	HOSCHEIT, Dale H.	19,090	PATEL, Binal J.	42,065
BANNER, Mark T.	29,888	HYMEL, Lin J.	45,414	PATHAK, Ajay S.	38,266
BANNER, Pamela I.	33,644	IWANICKI, John P.	34,628	PAYNE, Stephen S.	35,316
BECKER, Matthew P.	45,824	JACKSON, Thomas H.	29,808	PETERSON, Thomas L.	30,969
BECKETT, William W.	18,262	KAGAN, Sarah A.	32,141	POTENZA, Joseph M.	28,175
BERGHAMMER, Joseph J.	46,057	KATZ, Robert S.	36,402	PRATT, Thomas K.	37,210
BODNER, Jordan	42,338	KLEIN, William J.	43,719	RENK, Christopher J.	33,761
BUROW, Scott A.	42,373	KRAUSE, Joseph P.	32,578	RESIS, Robert H.	32,168
CALLAHAN, James V.	20,095	LINEK, Ernest V.	29,822	RIVARD, Paul M.	43,446
CHANG, Steve S	42,402	MAGOON, Sumeet	43,769	ROBINSON, Douglas W.	32,751
COHAN, Gregory J.	40,959	MALONE, Dale A.	32,155	SCHAD, Steven P.	32,550
COOPERMAN, Marc S.	34,143	MANNAVA, Ashok K.	45,301	SHIFLEY, Charles W.	28,042
CURTIN, Joseph P.	34,571	MAPLE, Marie-Claire B.	37,588	SKERPON, Joseph M.	29,864
DAWSON, John R.	39,504	MAY, Steven A.	44,912	SPAR, Elizabeth N.	45,123
DeMOOR, Laura J.	39,654	McDERMOTT, Peter D.	29,411	STOCKLEY, D. J.	34,257
EVANS, Thomas L.	35,805	McKEE, Christopher L.	32,384	VAN ES, J. Pieter	37,746
FEDOROCHKO, Gary D.	35,509	McKIE, Edward F.	17,335	WILLIAMS, Kathleen M.	34,380
FISHER, Daniel E.	34,162	MEDLOCK, Nina L.	29,673	WITCOFF, Sheldon W.	17,399
FISHER, William J.	32,133	MEECE, Timothy C.	38,553	WOLFF, Kevin A.	42,233
FITZGERALD, Mark J.	45,928	MEEKER, Frederic M.	35,282	WOLFFE, Franklin D.	19,724
GLEMBOCKI, Christopher R.	38,800	MILLER, Charles L.	43,805	WOLFFE, Susan A.	33,568
HANLON, Brian E.	40,449	MITRIUS, Janice V.	43,808	WRIGHT, Bradley C.	38,061
HEMMENDINGER, Lisa M.	42,653	MORENO, Christopher P.	38,566		
HILLMAN, Lisa	43,673	NELSON, Jon O.	24,566		

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature James A. Stockman Date July 6, 2000
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